# BIOENGINEERING BS
## DEGREE CURRICULUM

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## Approved List of Upper Division Electives – Courses used to satisfy a concentration cannot be used to also satisfy electives

- AMS 147-Computational Methods and Applications
- BIOC 100C -Biochemistry
- BIOC 105-Genetics
- BIOC 110-Cell Biology
- BIOC 114-Cancer Cell Biology
- BIOC 115-Eukaryotic Molecular Biology
- BIOL 119-Microbiology
- BIOL 125-Introduction To Neuroscience
- BIOL 130/L-Human Physiology/Lab
- BIOL 125-L-Metabolic Systems/Lab
- BME 110-Computational Biology Tools ♦
- BME 115-Bioinstrumentation ♦
- BME 117-Frontiers in Drug Action and Discovery
- BME 177-Engineering Stem Cells ♦
- BME 178-Cell Biology ♦
- BME 205-Bioinformatics Models and Algorithms ♦
- BME 211-Computational Systems Biology
- BME 215-Applied Gene Technology
- BME 230/L-Computational Genomics

- CHEM 108B/M-Organic Chemistry/Lab
- CMPE 100/L-Logic Design/Lab $ ♦$
- CMPE 110-Computer Architecture
- CMPE 118/L-Mechatronics/Lab ♦
- CMPE 121/L-Microprocessor System Design/Lab
- CMPE 131-Human-Computer Interaction
- CMPE 167/L-Sensing and Sensor Technology/Lab ♦
- CMPE 202-Computer Architecture
- CMPE 215-Models of Robotic Manipulation
- CMPE 233-Human Factors ♦
- CMPE 235-User Evaluation of Technology
- CMPS 101-Algorithms and Abstract Data Types
- CMPS 109-Advanced Programming ♦
- CMPS 115-Software Methodology
- CMPS 116-Software Design Project
- CMPS 180-Database Systems I
- CMPS 181-Database Systems II
- CMPS 182-Introduction to Database Management Syst

- EE 103-Signals and Systems
- EE 104-Bio-electronics and Bio-instrumentations ♦
- EE 115-Intro. to MEMS Design ♦
- EE 130/L-Intro. to Optoelectronics and Photonics/Lab ♦
- EE 145/L-Properties of Materials/Lab ♦
- EE 154-Feedback Control Systems ♦
- EE 171/L-Analog Electronics/Lab ♦
- EE 172-Advanced Analog Circuits ♦
- EE 212-Introduction to BioMEMS ♦
- EE 216-Nanomaterials and Nanometer-scale Device ♦
- EE 230-Optical Fiber Communication ♦
- EE 270-Neural Implant Engineering ♦
- EE 293-Advanced Topics in Electrical Engineering ♦

- $-Counts towards Design Elective
- ♦-Recommended for Biomolecular
- ♦-Recommended for Bioelectronics
- ♦-Recommended for Rehabilitation

**Student Name: ___________________________**  
**Student ID: _________________________**  
**Faculty Advisor: ___________________________**  
**Date: ___________________________**  
**Staff Advisor: ___________________________**  
**Date: ___________________________**